

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Cancelled).

Claim 2 (Currently Amended): A method of allocating radio resources, in a base station, to the base station and a mobile station, comprising ~~the steps of~~:

obtaining a ratio between traffic of an uplink and traffic of a downlink;

allocating the radio resources to the uplink and the downlink for the mobile station ~~according to the obtained ratio~~; and

dividing time into a plurality of time periods corresponding to at least one of days of a week and hours of a day, and allocating empirical data regarding the traffic of the uplink and the traffic of the downlink to the respective time periods, wherein said step of obtaining [[a]] ~~the ratio obtains the ratio based on the empirical data corresponding to a present time period and a current ratio between traffic of the uplink and traffic of the downlink based on current traffic includes;~~

obtaining a current ratio between the traffic of the uplink and the traffic of the downlink based on current traffic; and

obtaining a weighted average of the empirical data corresponding to a present time period and the current ratio by weighting the empirical data and the current ratio with respective weighting factors that are determined on a base-station specific basis depending on volatility of traffic, wherein said allocating the radio resources allocates the radio resources to the uplink and the downlink according to the weighted average.

Claims 3-4 (Cancelled).

Claim 5 (Currently Amended): The method as claimed in claim 2, further comprising a step of transmitting, to the mobile station, information about the radio resources with respect to at least one of the uplink and the downlink.

Claim 6 (Currently Amended): The method as claimed in claim 2, further comprising a step of allocating transmission power according to communication quality required for the uplink and the downlink.

Claim 7 (Cancelled).

Claim 8 (Currently Amended): A base station apparatus which communicates with a mobile station apparatus, comprising:

a computation unit which obtains a ratio between traffic of an uplink and traffic of a downlink; and

an allocation unit which allocates [[the]] radio resources to the uplink and the downlink according to the ratio, wherein time is divided into a plurality of time periods corresponding to at least one of days of a week and hours of a day, and empirical data regarding the traffic of the uplink and the traffic of the downlink are allocated to the respective time periods, and wherein said computation unit obtains the ratio based on the empirical data corresponding to a present time period and a current ratio between traffic of the uplink and traffic of the downlink based on current traffic a current ratio between the traffic of the uplink and the traffic of the downlink based on current traffic, and obtains a weighted average of the empirical data corresponding to a present time period and the current ratio by weighting the empirical data and the current ratio with respective weighting factors that are determined on a base-station-specific basis depending on volatility of traffic, and

wherein said allocation unit allocates the radio resources to the uplink and the downlink according to the weighted average.

Claims 9-10 (Cancelled).

Claim 11 (Previously Presented): The base station apparatus method as claimed in claim 8, further comprising a reporting control unit which transmits, to the mobile station, information about the radio resources with respect to at least one of the uplink and the downlink.

Claim 12 (Previously Presented): The base station apparatus method as claimed in claim 8, wherein the allocation unit allocates transmission power according to communication quality required for the uplink and the downlink.